PATENT COOPERATION TREATY

То:				PCT	
see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORIT (PCT Rule 43 <i>bis</i> .1)		
		,	Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)	
Applicant's or agent's file refe see form PCT/ISA/220	erence		FOR FURTHER ACTION See paragraph 2 below		
International application No. PCT/GB2005/000080		International filing date (d 12.01.2005	lay/month/year)	Priority date (day/month/year) 12.01.2004	
International Patent Classifica C12Q1/68	ation (IPC) or t	ooth national classification a	and IPC	-	
Applicant SOLEXA LIMITED					
 ☑ Box No. I ☑ Box No. II ☐ Box No. III ☐ Box No. IV ☑ Box No. V ☐ Box No. VI ☐ Box No. VI ☐ Ce ☐ Box No. VII ☐ Ce 	asis of the op- iority on-establishmack of unity of easoned state oplicability; cite ertain documentain defects ertain observa	nent of opinion with rega invention ement under Rule 43 <i>bis</i> ations and explanations	rd to novelty, inventiv 1(a)(i) with regard to supporting such stat	re step and industrial applicability novelty, inventive step or industrial ement	
written opinion of the the applicant choose International Bureau will not be so consid- If this opinion is, as p submit to the IPEA a	e Internationales an Authorical under Rule le lered. provided about a written replyte of mailing cater.	al Preliminary Examining ty other than this one to 66.1 bis(b) that written on we, considered to be a way together, where approp of Form PCT/ISA/220 or	Authority ("IPEA"). I be the IPEA and the binions of this Interna written opinion of the I priate, with amendme	usually be considered to be a dowever, this does not apply where chosen IPEA has notifed the tional Searching_Authority IPEA, the applicant is invited to ents, before the expiration of three of 22 months from the priority date,	
3. For further details, so					
Name and mailing address of	44-164		Authorized Officer	· · · · · · · · · · · · · · · · · · ·	



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WRITTEN OPINION OF THE ERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/000080

AP20 Reside 2017/10 07 JUL 2006

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_	Box N	No. I	l Basis of the opinion				
1.	With regard to the language, this opinion has been established on the basis of the international application the language in which it was filed, unless otherwise indicated under this item.						
	la	angua	opinion has been established on the basis of a translation from the original lauage , which is the language of a translation furnished for the purposes of er Rules 12.3 and 23.1(b)).	anguage into the following international search			
2.	With r	regard ssary	ional application and				
	a. type	e of n	f material:				
	\boxtimes	a se	sequence listing				
	. 🗆	tab	able(s) related to the sequence listing				
	b. forr	mat of	of material:				
	\boxtimes	in v	written format				
		in c	n computer readable form				
	c. time	e of fi	f filing/furnishing:				
	\boxtimes	con	ontained in the international application as filed				
		file	led together with the international application in computer readable form.				
	⊠	furr	urnished subsequently to this Authority for the purposes of search.				
3.	h C	as be opies	ddition, in the case that more than one version or copy of a sequence listing a been filed or furnished, the required statements that the information in the sues is identical to that in the application as filed or does not go beyond the appropriate, were furnished.	bsequent or additional			
4.	Additi	ional (al comments:				
	Box I	No. II	II Priority				
1.	d re	loes n equire	validity of the priority claim has not been considered because the Internation is not have in its possession a copy of the earlier application whose priority has ired, a translation of that earlier application. This opinion has nevertheless becamption that the relevant date (Rules 43 <i>bis</i> .1 and 64.1) is the claimed priority	is been claimed or, where een established on the			
2.	h	ias be	opinion has been established as if no priority had been claimed due to the fabeen found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this op date indicated above is considered to be the relevant date.	nct that the priority claim inion, the international			
3.	Additi	ional	al observations, if necessary:				

WRITTEN OPINION OF THE INCREMENTATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/000080

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

4-31

No: Claims

1-3

Inventive step (IS)

Yes: Claims

No: Claims

1-31

Industrial applicability (IA)

Yes: Claims

1-31

No: Claims

2. Citations and explanations

see separate sheet

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VRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2005/000080

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Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following documents are referred to in this communication:

- D1: WO 98/44151 A (GLAXO GROUP LIMITED; KAWASHIMA, ERIC; FARINELLI, LAURENT; MAYER, PASCA) 8 October 1998 (1998-10-08)
- D2: WO 02/061143 A (AMBION, INC; WINKLER, MATTHEW, M; BROWN, DAVID) 8 August 2002 (2002-08-08)
- D3: US-A-5 770 365 (LANE ET AL) 23 June 1998 (1998-06-23)
- D4: US-B1-6 403 319 (LIZARDI PAUL M ET AL) 11 June 2002 (2002-06-11)
- 1 **NOVELTY** (Article 33(2) PCT)
- 1.1 A method of sequencing and distinguishing between nucleic acid sequences on an array, which sequences originate from different sources, which method comprises the steps of,
 - a) immobilising target nucleic acid sequences from different sources to said array via a capture moiety comprising a functionality capable of effecting immobilisation of said target nucleic acid sequences to said array thereby producing immobilised molecules, each immobilised molecule comprising a target nucleic acid sequence and a nucleic acid sequence tag characteristic of the target nucleic acid sequence source and,
 - b) sequencing said immobilised molecules whereupon said sequencing identifies a sequence of each of the nucleic acid molecules comprising the characteristic nucleic acid sequence tag to identify the corresponding source of the target_nucleic acid sequence is disclosed in D1 (cf. cl.1 to 6,13,17 to 20,22,25,28 to 34,42 to 44,47, p.42, par.3, p.49 to 50, p.59, par.4 to p.63, par.1, Fig.13 and Fig.14) and D2 (cf. cl.1 to 3,10,14,17 to 21,31,32,40,41,47, Fig.8 and 9, p.56, par.4 to p.66) Therefore, the subject-matter of independent claim 1 is not novel over the prior art

Therefore, the subject-matter of independent claim 1 is not novel over the prior art (Article 33(2) PCT).

- 2 **INVENTIVE STEP** (Article 33(3) PCT)
- 2.1 Dependent claims 2 to 31 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, as all of the additional features fall within the scope of routine laboratory practise (cf. D1, cl.1 to 6,13,17 to 20,22,25,28 to 34,42 to 44,47, p.42, par.3, p.49 to 50, p.59, par.4 to p.63, par.1, Fig.13 and Fig.14, D2, cf. cl.1 to 3,10,14,17 to 21,31,32,40,41,47, Fig.8 and 9, p.56, par.4 to p.66 and D3 and D4 (whole documents)).